

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 03/084 PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/ 03353	International filing date (day/month/year) 28/03/2003	(Earliest) Priority Date (day/month/year) 28/03/2002
Applicant BRENNTAG BIOSECTOR A/S		

This international Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

P/EP 03/03353

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/00 A61K39/39 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EMBASE, WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 02591 A (MERCK & CO, INC.) 20 January 2000 (2000-01-20) cited in the application page 20, line 21 - line 27 examples claims	1-3,5,8, 9
Y	---	4,6
X	WO 99 30733 A (SMITHKLINE BEECHAM BIOLOGICALS S.A.) 24 June 1999 (1999-06-24) page 9, line 18 - line 27 claims	1-3,8,9
X	WO 97 28818 A (THEREXSYS LIMITED) 14 August 1997 (1997-08-14) page 42, line 7 - line 19 claims	1-3,8,9

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 September 2003

Date of mailing of the international search report

25/09/2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/03353

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 68259 A (G. LINDAHL) 16 November 2000 (2000-11-16) page 27, line 5 - line 8 page 29, line 7 - line 9 ---	4
Y	WO 93 24148 A (SMITHKLINE BEECHAM BIOLOGICALS (S.A.)) 9 December 1993 (1993-12-09) page 3, line 8 - line 12 ---	6
A	---	7
A	S. WANG ET AL.: "Enhanced type I immune response to a hepatitis B DNA vaccine by formulation with calcium- or aluminium phosphate." VACCINE, vol. 18, no. 13, 21 January 2000 (2000-01-21), pages 1227-1235, XP002234919 Guildford, GB cited in the application abstract page 1234, left-hand column, line 15 - line 21 -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/03353

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0002591	A	20-01-2000	AU 4973199 A	01-02-2000
			CA 2336992 A1	20-01-2000
			EP 1094844 A1	02-05-2001
			JP 2002520299 T	09-07-2002
			WO 0002591 A1	20-01-2000
			US 2002045594 A1	18-04-2002
WO 9930733	A	24-06-1999	AU 740729 B2	15-11-2001
			AU 1967899 A	05-07-1999
			BR 9814285 A	03-10-2000
			CA 2313005 A1	24-06-1999
			CN 1284883 T	21-02-2001
			WO 9930733 A1	24-06-1999
			EP 1037662 A1	27-09-2000
			HU 0100197 A2	28-05-2001
			JP 2002508333 T	19-03-2002
			NO 20003087 A	08-08-2000
			NZ 504936 A	27-09-2002
			PL 341212 A1	26-03-2001
			TR 200001737 T2	21-12-2000
			US 2003072768 A1	17-04-2003
			US 6500432 B1	31-12-2002
			ZA 9811501 A	15-06-2000
WO 9728818	A	14-08-1997	AT 225668 T	15-10-2002
			AU 724716 B2	28-09-2000
			AU 1800597 A	28-08-1997
			CA 2244110 A1	14-08-1997
			DE 69716240 D1	14-11-2002
			DE 69716240 T2	26-06-2003
			DK 880360 T3	27-01-2003
			EP 0880360 A1	02-12-1998
			ES 2184990 T3	16-04-2003
			WO 9728818 A1	14-08-1997
			JP 2000505802 T	16-05-2000
			PT 880360 T	28-02-2003
			US 2003100496 A1	29-05-2003
WO 0068259	A	16-11-2000	AU 4605100 A	21-11-2000
			CA 2372497 A1	16-11-2000
			EP 1175437 A2	30-01-2002
			WO 0068259 A2	16-11-2000
WO 9324148	A	09-12-1993	AP 567 A	25-11-1996
			AT 168271 T	15-08-1998
			AU 709406 B2	26-08-1999
			AU 1648097 A	29-05-1997
			AU 4315693 A	30-12-1993
			CA 2136429 A1	09-12-1993
			CN 1085450 A	20-04-1994
			CZ 9402892 A3	13-09-1995
			DE 69319728 D1	20-08-1998
			DE 69319728 T2	04-02-1999
			DK 642355 T3	30-11-1998
			WO 9324148 A1	09-12-1993
			EP 0642355 A1	15-03-1995
			EP 0835663 A2	15-04-1998
			ES 2118963 T3	01-10-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/03353

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9324148	A	FI 945483 A	20-01-1995
		HK 1011290 A1	28-04-2000
		HU 71791 A2	28-02-1996
		IL 105770 A	16-08-1998
		JP 7508267 T	14-09-1995
		MX 9302982 A1	01-12-1993
		NO 944475 A	18-01-1995
		NZ 253065 A	28-10-1996
		PL 174077 B1	30-06-1998
		RU 2160120 C2	10-12-2000
		SG 48365 A1	17-04-1998
		SI 9300271 A	31-12-1993
		SK 142194 A3	09-08-1995
		US 6013264 A	11-01-2000
		ZA 9303541 A	21-06-1994